

PDF technical sheet 23230EMW33



Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

Product definition	
d	5.9055 "
D	10.6299 "
B	3.7795 "
D1	9.3150 "
rs min	0.1181 "
Number of lubrication holes	3
b	0.5394 "
k	0.2362 "
e	0.33
Y1	2.03
Y2	3.02
Y0	1.98
Radial clearance class	CN
Mass	82.96 oz
Brand	SNR



Product performance	
Dynamic load, C	1,340 kN
Static load, C0	1,620 kN
Fatigue limit load, Cu	107 kN
Nref	1,500 RPM
Nlim	2,200 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.18 Hz
Characteristic outer ring frequency, BPF0	7.61 Hz
Characteristic inner ring frequency, BPF1	10.39 Hz



Abutment dimensions

da min	6.4567 "
Da max	10.0787 "
ra max	0.0984 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X ₀	Y ₀
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .